



Part No.
NTCAT5E-DB

CAT5E DIRECT BURIAL- 350 MHz 24 AWG SOLID 4PR UTP, WBT, TIA/EIA 568-C.2, ISO/IEC 11801 Ed2, LLDPE JKT- BLACK- 1000 FT SPOOL

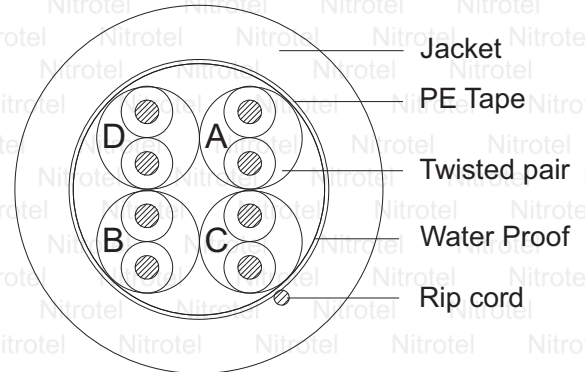
Standards:

TIA/EIA 568-C.2
ISO/IEC 11801
EN 50173-1:2011
IEC 61156-5
EN 50288-3-1
EMC Performance Rating 6

LLDPE JACKET:

ISO 1872-PE
ANSI C 8.35

OTHER:



Application: LAN/Networking Cable for outdoor and direct burial applications

Construction Characters:

Conductor	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.50±0.004mm
Insulation	Material	HDPE
	Min. Thickness	0.188mm
	AVG. Thickness	0.205mm
	Diameter	0.91±0.01mm
	Colors	Blue-White/Blue Orange-White/Orange Green-White/Green Brown -White/Brown
Filler	Filler	Water proof
	Core wrap	PE Tape
Jacket	Material	LLDPE
	AVG. Thickness	0.75mm
	Min. Thickness	0.67mm
	Diameter	6.40±0.10mm
	Colors	Black
	Rip Cord	Nylon



Electrical & Physical Characters

Rating		75°C 300V	
Conductor Resistance		Max 93.8ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
AC Leakage Current Through overall Jacket		AC 1500V	10mA
Insulation	Unaged	Tensile Strength	16.5 Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2 Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	10.8 Mpa
		Elongation	300%
	Aged	Tensile Strength	9.2 Mpa(100°C 168h)
		Elongation	150%(100°C 168h)
Cold Bend Test		-20°C 4hours No Cracking	
DC Resistance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		1~350MHZ 100 ± 15OHM	
Nominal Velocity of Propagation (%)		67~69	
Propagation Delay		350MHZ Max 536ns/100m	
Delay Skew		1~350MHZ Max 45ns/100m	
Marking:			
NNITROTEL INTERNATIONAL GROUP --- P/N CAT5E-DB --- CAT5E ENHANCED 350 MHz 24 AWG UTP PE JKT CMX OUTDOOR / DIRECT BURIAL VERIFIED TO ANSI/TIA-568-C.2 -- CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET			
Packaging:			
Approx. Weight(kg)	Approx. Dimension(mm)	package	Packages per Pallet
11.95	370X220X200X12	1000 ft/ Spool	36



Performance -1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	Nitrotel	Standard	Nitrotel	Standard	Nitrotel	Standard	Nitrotel
1	2.0	2.0	65.3	76.2	62.3	72.3	63.3	74.2
4	4.1	3.7	56.3	65.7	53.3	62.5	52.2	62.0
8	5.8	5.2	51.8	61.5	48.8	58.5	46.0	56.3
10	6.5	5.9	50.3	56.3	47.3	55.1	43.8	50.4
16	8.2	7.4	47.2	51.9	44.2	48.2	39.0	44.5
20	9.3	8.2	45.8	58.7	42.8	56.5	36.5	50.5
25	10.4	9.2	44.3	55.2	41.3	51.6	33.9	46.0
31.25	11.7	10.3	42.9	54.4	39.9	50.4	31.2	44.1
62.5	17.0	14.6	38.4	47.1	35.4	45.2	21.4	32.5
100	22.0	18.6	35.3	47.3	32.3	44.3	13.3	28.7
155	28.1	22.9	32.4	45.9	29.4	40.4	4.3	23.0
200	32.4	25.7	30.8	40.7	27.8	36.8	---	---
300	41.0	31.6	28.1	38.5	25.1	40.1	---	---
350	44.9	34.3	27.1	36.7	24.1	31.6	---	---

Performance -2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	Nitrotel	Standard	Nitrotel	Standard	Nitrotel	Standard	Nitrotel
1	20.0	23.4	63.8	75.4	60.8	73.3	60.3	70.3
4	23.0	29.6	51.8	57.3	48.8	56.5	49.2	58.8
8	24.5	25.0	45.7	49.4	42.7	48.0	43.0	53.3
10	25.0	26.5	43.8	46.6	40.8	45.1	40.8	49.2
16	25.0	26.2	39.7	50.2	36.7	47.2	36.0	40.8
20	25.0	27.0	37.8	45.1	34.8	41.9	33.5	48.3
25	24.3	25.9	35.8	40.0	32.8	38.7	30.9	42.4
31.25	23.6	24.3	33.9	42.5	30.9	41.7	28.2	40.1
62.5	21.5	22.0	27.8	39.1	24.8	34.7	18.4	30.6
100	20.1	23.6	23.8	30.9	20.8	28.2	10.3	25.7
155	18.8	27.0	20.0	31.4	17.0	22.6	1.3	17.5
200	18.0	25.4	17.7	26.0	14.7	22.9	---	---
300	16.8	24.2	14.2	27.7	11.2	17.5	---	---
350	16.3	26.9	12.9	22.3	9.9	17.3	---	---

